

## Costs Longboard US\$ (without prototyping costs)

Product:	Quantity:	Unit Price:	Total Price:
LG HG2 18650 3000mAh 20A Battery	18	7.9	141.8
BMS CF-6S40A-A	1	12.1	12.1
Resistors (10K,100,2K,1K,5K,500)	15	0.2	2.3
Capacitors (100nF,1uF, 10uF)	10	0.4	4.0
3,3V Zener Diode	1	0.3	0.3
Oscillator 16MHz	1	1.9	1.9
YEP ESC 80A Brushless Speed Controler	2	47.7	95.5
Turnigy 5055 430kV 70A - Brushless Motor	2	52.8	105.6
Cable AWG12 - red	2	0.9	1.8
Cable AWG12 - black	2	0.9	1.8
Voltage Regulator L7812	1	0.4	0.4
Voltage Regulator L7805	1	0.4	0.4
LCD Battery Capacity Monitor DC 8-63V	1	13.0	13.0
Electrical Insulating Adhesive Paper	18	0.03	0.5
Bullet Connectors	6	2.1	12.7
18650 Lithium Battery Double Holder Bracket	18	0.2	4.1
Kastar Pure Nickel Solder Tab	50	0.2	9.1
Bluetooth HM10	1	10.0	10.0
Bamboo	8	3.8	30.3
Carbon Fiber 1,2M <sup>2</sup>	1	36.4	36.4
JLC PCB	1	3.9	3.9
Longboard Grip (Grey/Black)	2	7.6	15.2
Microcontrolador	1	3.0	3.0
Mosfets IRFZ44NSTRRPBF	3	2.1	6.4
Connector Cargador	1	2.4	2.4
HEAT SINK	2	0.9	1.8
Battery Pack PVC Heat Shrink	1	2.1	2.1
RGB LED STRIP 1m	1	4.5	4.5

## Investment

Spot Welder	1	220	220
ShopBot Mold (hours)	12	14.45	173.4
ESC programming card	1	6.4	6.4

## Machining

Laser (min)	12	0.27	3.24
Vinyl Cutter (min)	2	0.04	0.08
Roland -- PCB (hours)	9	7.19	64.71
3D Printer (hours) SIGMAX - PLA	34	1.63	55.42
3D Printer (hours) MOJO - ABS	14	2.64	36.96

**Total Only Materials:** 523.4

**Total W/ Machining:** 683.8

**Total W/ Machining and Investment:** 1083.5

**Total Investment:** 399.8

**Total Machining:** 160.41